

WHAT IS CLAIMED IS:

1. A propagated signal, comprising:
2 a time period divided into a group of time slots each having
3 a unique phase/time position; and
4 multiple pulses distributed among said time slots encoding a
5 data element by said unique phase/time position.

2. The propagated signal as recited in Claim 1 wherein said
data element is ascertainable by mapping.

3. The propagated signal as recited in Claim 1 wherein said
time slots in said group are adjacent.

4. The propagated signal as recited in Claim 1 wherein said
time slots in said group are not adjacent.

5. The propagated signal as recited in Claim 1 wherein said
time slots have a non-uniform spacing.

6. The propagated signal as recited in Claim 1 wherein said
data element is at least fifteen bits long.

7. The propagated signal as recited in Claim 1 wherein said
2 data element is selected from the group consisting of:

- 3 a header;
4 an error detection message;
5 a synchronization element; and
6 a data message.

8. The propagated signal as recited in Claim 1 further
2 comprising a plurality of said time periods.

9. The propagated signal as recited in Claim 8 wherein said
2 groups have differing numbers of multiple pulses.

10. The propagated signal as recited in Claim 8 wherein said
2 number of time slots vary in said time periods.

11. A method of propagating a signal, comprising:
2 designating a time period divided into a group of time slots
3 each having a unique phase/time position; and
4 distributing multiple pulses among said time slots to encode
5 a data element by said unique phase/time position.

12. The method as recited in Claim 11 wherein said data
2 element is ascertainable by mapping.

13. The method as recited in Claim 11 wherein said time slots
in said group are adjacent.

14. The method as recited in Claim 11 wherein said time slots
in said group are not adjacent.

15. The method as recited in Claim 11 wherein said time slots
2 have a non-uniform spacing.

16. The method as recited in Claim 11 wherein said data
2 element is at least fifteen bits long.

17. The method as recited in Claim 11 wherein said data
2 element is selected from the group consisting of:
3 a header;

4 an error detection message;
5 a synchronization element; and
6 a data message.

18. The method as recited in Claim 11 further comprising a
2 plurality of said time periods.

19. The method as recited in Claim 18 wherein said groups
have differing numbers of multiple pulses.

20. The method as recited in Claim 18 wherein said number of
time slots vary in said time periods.